

$^2\text{H}({}^{36}\text{S}, {}^{37}\text{S}\gamma)$ **2001Gu10**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	John Cameron, Jun Chen and Balraj Singh, Ninel Nica		NDS 113, 365 (2012)	15-Jan-2012

2001Gu10: $E({}^{36}\text{S})=2.2$ MeV/nucleon; target= CD_2 . Measured $E\gamma$, $I\gamma$, σ , $\gamma\text{-rf}$, $\gamma(\text{particle})$ coin using Miniball Ge detector array for γ rays and a thin position-sensitive parallel plate avalanche counter (PPAC) and $\Delta E\text{-}E$ telescopes for particles. REX-ISOLDE facility.

One-neutron pickup reaction combined with γ -ray detection.

 ${}^{37}\text{S}$ Levels

E(level)	J^π [†]	σ (mb)
0	$7/2^-$	
646	$3/2^-$	140 46
1397?		
1992	$3/2^-$	23 10
2023?		
2638	$1/2^-$	56 15

[†] From Adopted Levels.

 $\gamma({}^{37}\text{S})$

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
646 1	100	646	$3/2^-$	0	$7/2^-$	$\sigma=215$ mb 43.
751 [‡]	<3	1397?		646	$3/2^-$	
1347 3	8	1992	$3/2^-$	646	$3/2^-$	$\sigma=19$ mb 10.
1377 [‡]	<3	2023?		646	$3/2^-$	
1992 2	2 [†]	1992	$3/2^-$	0	$7/2^-$	
1993 2	27 [†]	2638	$1/2^-$	646	$3/2^-$	$\sigma=61$ mb 14 for doublet.
2023 [‡]	<3	2023?		0	$7/2^-$	

[†] The total intensity of the 1992 doublet=29, divided to the 1992 and 2638 levels according to the cross sections and the branching of the latter from Adopted Levels.

[‡] Placement of transition in the level scheme is uncertain.

